<u>WHAT IS CLAIMED IS</u>:

1   1.   A method for generating a page, the method comprising:

2   determining a data source specification and a layout specification for the page,

3 the data source specification and layout specification being declaratively specified by a user,

4 the data source specification including access information for a data source;

5   retrieving data for the data source based on the data source specification and

6 the access information;

7   determining a layout for the data based on the layout specification; and

8   generating the page using the data and the determined layout.

1   2.   The method of claim 1, wherein the data source specification

2 comprises a data type for the data source.

1   3.   The method of claim 2, wherein the data type comprises at least one of

2 a spreadsheet data type, XML data type, SQL data type, web service data type, and a web

3 page data type.

1   4.   The method of claim 1, wherein the access information comprises a

2 path to the data source.

1   5.   The method of claim 4, wherein the path comprises a URL.

1   6.   The method of claim 1, wherein the data source specification

2 comprises a filtering specification that filters data retrieved from the data source.

1   7.   The method of claim 1, wherein the layout specification comprises at

2 least one of a tabular layout, chart layout, news layout, form layout, and bullet layout.

1   8.   The method of claim 1, wherein determining the layout comprises

2 formatting the retrieved data into the layout.

1   9.   The method of claim 1, wherein the page comprises a web-based page.

1   10.   The method of claim 1, wherein the page comprises a portlet.

1   11.   A method for generating a graphical user interface (GUI), the method

2 comprising:

3   providing a data source interface that enables a user to declaratively specify

4 access information for a data source;

5   determining a declarative specification for the data source;

6   retrieving data for the data source using the access information;

7   providing a layout interface that enables the user to declaratively specify a

8 layout for the determined data;

9   determining a layout specification for the determined data; and

10   generating a graphical user interface based on the declarative specification for

11 the data source and the layout specification for the determined data.

1   12. · The method of claim 11, wherein the data source interface comprises

2 one or more data types that enables a user to specify a data type for the data source.

1   13. The method of claim 12, wherein the one or more data types comprise

2 at least one of a spreadsheet data type, XML data type, SQL data type, web service data type,

3 and a web page data type.

1   14. The method of claim 12, wherein determining the data comprises using

2 the specified data type and the access information to retrieve the data for the specified data

3 source.

1   15. The method of claim 11, wherein the access information comprises a

2 URL.

1   16. The method of claim 11, further comprising providing a filtering

2 interface including filtering options for the retrieved data that enables a user to declaratively

3 specify which data to use in the generated GUI.

1   17. The method of claim 11, wherein the layout interface comprises one or

2 more layout options that enables the user to declaratively specify a layout type.

1   18. The method of claim 17, wherein the layout type comprises at least one

2 of a tabular layout, chart layout, news layout, form layout, and bullet layout.

1   19. The method of claim 17, further comprising providing a layout type

2 interface that enables the user to specify how the retrieved data should be laid out in the GUI

3 using the specified layout type.

1   20.   The method of claim 11, wherein the data source interface does not

2 include the access information for the data source before it is declaratively specified by the

3 user.

1   21.   The method of claim 11, wherein the GUI comprises a web-based

2 page.

1   22.   The method of claim 11, wherein the GUI comprises a portlet.

1   23.   A method for declaratively generating a page using an interface, the

2 method comprising:

3   receiving a declarative specification of access information for a data source,

4 wherein the access information is input by a user;

5   retrieving data using the access information for the data source;

6   determining layout information for data from the data source; and

7   generating a page using the retrieved data and the layout information.

1   24.   The method of claim 23, wherein the declarative specification

2 comprises a specification of a data type for the data source.

1   25.   The method of claim 23, wherein the access information comprises a

2 path to the data source.

1   26.   The method of claim 25, wherein the path comprises a URL.

1   27.   The method of claim 23, wherein the declarative specification

2 comprises a filtering specification that filters data retrieved from the data source.

1   28.   The method of claim 23, wherein the page comprises a web-based

2 page.

1   29.   The method of claim 23, wherein the page comprises a portlet.